PAGE: 1

RAW SEQUENCE LISTING

PATENT APPLICATION US/08/946,710

DATE: 10/02/98

TIME: 09:06:53

Input Set: H946710.RAW

This Raw Listing contains the General Information Section and those Sequences containing ERRORS.

Does Not Comply
Corrected Diskette Needed

hew formed

- 1 <110> Brod, Staley A.
- 2 <120> Methods of Treating Auto-Immune Diseases Using Type One Interferons
- 3 <130> D5716CIP4
- 4 <140> US/08/946,710
- 5 <141> 1997-10-08
- 6 <150> US 08/226,631
- 7 <151> 1994-04-12
- 8 <160> 6

BEST AVAILABLE COPY

ERRORED SEQUENCES FOLLOW

	9	<210> 1	
E>	10	<211>20) 21 stores	
	11	<212> DNA	
	12	<213> artificial sequence	
	13	<220>	·
	14	<221> primer_bind	
	15	<222>	
	16	<223> synthesized	
	17	<400> 1	\mathcal{O}_{2}
E>	18	gtggagcagg acctggccctg	(20)2/
	19	<210> 5	
E>	20	<211> (2) 20 show	
	21	<212> DNA	
	22	<213> artificial sequence	
	23	<220>	
	24	<221> primer_bind	
	25	<222>	
•	26	<223> synthesized	
	27	<400> 5	
E>	28	accagated etetggtget g	(2) 20
	29	<210> 6	
	30	<211> 25	
	31	<212> DNA	
	32	<213> artificial sequence	
	33	<220>	
	34	<221> primer_bind	FILE COPY
	35	<222>	
	36	<223> synthesized	
	37	<400> 6	
			Planco monitore all a

Please review the Sequence Listing to ensure that a corresponding explanation is presented in the "Other Information" element of each sequence which presents at least one n or Xaa.

PAGE: 2

RAW SEQUENCE LISTING

PATENT APPLICATION US/08/946,710

DATE: 10/02/98 TIME: 09:06:53

Input Set: H946710.RAW

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RAW SEQUENCE LISTING DATE: 10/02/98 PAGE: 3 PATENT APPLICATION US/08/946,710 TIME: 09:06:53 Jelija Input Set: H946710.RAW 88 W--> 89 E--> W--> 90 E--> 91 92 \$ 93 E--> 94 95 _\$__x__ E--> w--> 96 E--> 97 98 99 E--> 100 W--> E--> 101 W--> 102 103 E--> W--> 104 E--> 105 106 W--> `_x___\$__+_0_P__P__/_=!_"_#_\$_%___ E--> 107 W--> 108 '_____(____Times__ 109 _d__vgrd___ E--> 110 E--> 1111 112 +W30IN THE UNITED STATES PATENT AND TRADEMARK OFFICE (M < APPLICAN E--> 113 _1997_)f___* E--> 114 115)\$ EXAMINER: (___< SERIAL__)3_NO.: ___)_08/946710_)____)\$_Sa_____[_____ 116 E--> 117 _____6_B@___6__B_o_d_y__T_e_x_t____x_OJ_QJ_kH_'_@___ 118 E--> W--> 119 120 E--> 121 **@_____F_o_o_t_e_r__** W--> 123 E--> 124 W--> 125 E--> W--> 127 128 129 W--> _____)__4__Z_d__e__p___ 0E1 W--> 131 132 E--> W--> 133 134 _I_L_E_S_:_5_7_1_6_C_I_P_3::5_7_1_6_C_I_P_3_/_n_e_w_/_S_E_Q_ _L_I_S_T__H_e_i E-->

135

136

137

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PAGE:		4	DATE: 10/02/98
			PATENT APPLICATION US/08/946,710 TIME: 09:06:53
		Jel	Input Set: H946710.RAW
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E>	138	()	S: HEIDI'S FILES: 5716CIP2/CPA: 5716CIP3/
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E>	146		_5_7_1_6_C_I_P_4_:_5_7_1_6_C_I_P_4_/_n_e_w_/_S_E_QL_I_S_TH_e_i_d_iS_
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W>	187	1	

PAGE:	5	RAW SEQUENCE LISTING PATENT APPLICATION US/08/946,7	10	DATI TIMI	E: 10/02/98 E: 09:06:53
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PAGE		6	RAW SEQUENCE LISTING PATENT APPLICATION US/08/946,710	DATE: TIME:	10/02/98 09:06:53
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7

VERIFICATION SUMMARY PATENT APPLICATION US/08/946,710

DATE: 10/02/98 TIME: 09:06:53

Line	?	Error/Warning	Original Text
10	E	Input 20, Calc# Bases 21 differ	<211> 20
18	E	Number of Bases conflict w/ Running Total	gtggagcagg acctggccctg 20
20	E	Input 21, Calc# Bases 20 differ	<211> 21
28	E	Number of Bases conflict w/ Running Total	accagatcc ctctggtgct g 21
39	E	Wrong Amino Acid Designator	
40	W	Invalid/Missing Amino Acid Numbering	•
41	E	Wrong Amino Acid Designator	
42	W	Invalid/Missing Amino Acid Numbering	
43	E	Wrong Amino Acid Designator	
44	W	Invalid/Missing Amino Acid Numbering	
45	E	Wrong Amino Acid Designator	
46	W	Invalid/Missing Amino Acid Numbering	
47	E	Wrong Amino Acid Designator	
48	W	Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	
50	W	Invalid/Missing Amino Acid Numbering	
		Wrong Nucleic Acid Designator	
		Invalid/Missing Amino Acid Numbering	
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VERIFICATION SUMMARY PATENT APPLICATION US/08/946,710

DATE: 10/02/98 TIME: 09:06:53

ıne	?	Error/warning	Original Text	
	-			
		Wrong Amino Acid Designator		_
84	W	Invalid/Missing Amino Acid Numbering		
85	E	Wrong Amino Acid Designator	`_x	
85	E	Wrong Amino Acid Designator	` x ` x	
86	W	Invalid/Missing Amino Acid Numbering		
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		Wrong Amino Acid Designator	\$_x	
		Invalid/Missing Amino Acid Numbering		
97	E	Wrong Amino Acid Designator	p	
98	W	Invalid/Missing Amino Acid Numbering		
99	E	Wrong Amino Acid Designator		
100	W	Invalid/Missing Amino Acid Numbering		
		Wrong Amino Acid Designator		
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		Wrong Amino Acid Designator		-
		Invalid/Missing Amino Acid Numbering	,	
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		Wrong Nucleic Acid Designator	_	
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112	E	Wrong Amino Acid Designator	+W30IN THE UNITED STATES PATENT	
112	E	Wrong Amino Acid Designator	+W30IN THE UNITED STATES PATENT	ľ
112	E	Wrong Amino Acid Designator	+W30IN THE UNITED STATES PATENT	ľ
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		Wrong Amino Acid Designator		
		Wrong Amino Acid Designator	+W30IN THE UNITED STATES PATENT	.*
113	W	Invalid/Missing Amino Acid Numbering		

DATE: 10/02/98 TIME: 09:06:53

Line	?	Error/Warning	Original Text
114	E	Wrong Nucleic Acid Designator	_1997_)f*
115	W	Invalid/Missing Amino Acid Numbering	
116	E	Wrong Amino Acid Designator) \$ EXAMINER: _(<_SERIAL _) 3_NO.:
		Wrong Amino Acid Designator)\$ EXAMINER:(<_SERIAL _)3_NO.:
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		Invalid/Missing Amino Acid Numbering	:a_/e_:_aa_g_en_u_m_b
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		Wrong Amino Acid Designator	I_L_E_S::5_7_1_6_C_I_P_3::5_7_1_6_C_I_
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		Wrong Amino Acid Designator	I_L_E_S::5_7_1_6_C_I_P_3::5_7_1_6_C_I_
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		Wrong Amino Acid Designator	Q_LIST_Heidi_Struse8H_
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		Wrong Amino Acid Designator	Q_LIST_Heidi_Struse8H_
136	E	Wrong Amino Acid Designator	Q_LIST_Heidi_Struse8H

DATE: 10/02/98 TIME: 09:06:53

Line	?	Error/Warning	Original Text
137	W	Invalid/Missing Amino Acid Numbering	
138	E	Wrong Amino Acid Designator	S: HEIDI 'S FILES: 5716
138	E	Wrong Amino Acid Designator	S: HEIDI'S FILES: 5716
138	E	Wrong Amino Acid Designator	S: HEIDI'S FILES: 5716
138	E	Wrong Amino Acid Designator	S: HEIDI'S FILES: 5716
138	E	Wrong Amino Acid Designator	S: H E I D I ' S F I L E S: 5 7 1 6
139	W	Invalid/Missing Amino Acid Numbering	
140	E	Wrong Amino Acid Designator	I_P_2_/_C_P_A: 5_7_1_6_C_I_P_3_/_C_P_A_/
140	E	Wrong Amino Acid Designator	I P 2 / C P A : 5 7 1 6 C I P 3 / C P A /
140	E	Wrong Amino Acid Designator	I P 2 / C P A : 5 7 1 6 C I P 3 / C P A /
140	E	Wrong Amino Acid Designator	I P 2 / C P A : 5 7 1 6 C I P 3 / C P A /
141	W	Invalid/Missing Amino Acid Numbering	
142	E	Wrong Amino Acid Designator	ew_/_S_E_QL_I_S_T_Hei_d_iS_t_r
142	E	Wrong Amino Acid Designator	ew/SEQ_LISTHeidi_Str
142	E	Wrong Amino Acid Designator	_e_w_/_S_E_QL_I_S_TH_e_i_d_iS_t_r
142	E	Wrong Amino Acid Designator	_e_w_/_S_E_QL_I_S_TH_e_i_d_iS_t_r
142	E	Wrong Amino Acid Designator	_e_w_/_S_E_QL_I_S_TH_e_i_d_iS_t_r
		Wrong Amino Acid Designator	_e_w_/_S_E_QL_I_S_TH_e_i_d_iS_t_r
143	W	Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	u_s_e_8_H_E_I_D_I_:_F_I_L_E_S_:_H_E_I_D_I
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		Wrong Amino Acid Designator	u_s_e_8_H_E_I_D_I_:_F_I_L_E_S_:_H_E_I_D_I
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		Wrong Nucleic Acid Designator	5 7 1 6 C I P 4 : 5 7 1 6 C I P 4 / n e
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		Wrong Amino Acid Designator	
		Invalid/Missing Amino Acid Numbering	
158	E	Wrong Amino Acid Designator	PowerMac_User_Heidi_S
158	E	Wrong Amino Acid Designator	PowerMac_User_Heidi_S
158	E	Wrong Amino Acid Designator	P_o_w_e_r_M_a_cU_s_e_rH_e_i_d_iS

DATE: 10/02/98 TIME: 09:06:53

ine	?	Error/Warning	Original Text
159	W	Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	HelperfingerHelperftp
		Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	Helpergopher HelperhttpHelperhttps
		Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	Helpermailto Helpernetphone_Helpernews_He
		Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	Helpertelnet
		Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	Helpertn3270 HelperwaisHelperwhois Helper
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		Wrong Amino Acid Designator	
		Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	
		Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	h +' 0
		Wrong Amino Acid Designator	h +' 0
		Invalid/Missing Amino Acid Numbering	T_V
		Wrong Amino Acid Designator	I
		Wrong Amino Acid Designator	
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		Wrong Amino Acid Designator	
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		Wrong Amino Acid Designator	Heidi Struse_N2_idMi
		Wrong Amino Acid Designator	Heidi Struse_N2_idMi
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		Wrong Amino Acid Designator	Heidi StruseN2_idMi
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		Wrong Amino Acid Designator	
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		Wrong Amino Acid Designator	
189	W	Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	
191	W	Invalid/Missing Amino Acid Numbering	
192	E	Wrong Amino Acid Designator	
193	W	Invalid/Missing Amino Acid Numbering	
194	E	Wrong Amino Acid Designator	4
195	W	Invalid/Missing Amino Acid Numbering	
196	E	Wrong Amino Acid Designator	
197	W	Invalid/Missing Amino Acid Numbering	

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ine	?	Error/Warning	Original Text
198	- E	Wrong Amino Acid Designator	
		Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	
		Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	
		Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	
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		Wrong Amino Acid Designator	'_'_'+,D''
		Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	McGregor &
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		Wrong Amino Acid Designator	McGregor &
219	W	Invalid/Missing Amino Acid Numbering	
220	E	Wrong Amino Acid Designator	(1)_INFORMATION FOR SEQ ID NO: 1
220	E	Wrong Amino Acid Designator	(1) INFORMATION FOR SEQ ID NO: 1
220	E	Wrong Amino Acid Designator	(1)_INFORMATION FOR SEQ ID NO: 1
220	E	Wrong Amino Acid Designator	(1)_INFORMATION FOR SEQ ID NO: 1
220	E	Wrong Amino Acid Designator	(1)_INFORMATION FOR SEQ ID NO: 1
220	E	Wrong Amino Acid Designator	(1) INFORMATION FOR SEQ ID NO: 1
220	E	Wrong Amino Acid Designator	(1) INFORMATION FOR SEQ ID NO: 1
221	W	Invalid/Missing Amino Acid Numbering	
222	E	Wrong Amino Acid Designator	
223	W	Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	
		Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	
		Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	
		Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	
		Invalid/Missing Amino Acid Numbering	
		Wrong Amino Acid Designator	
		Thyalid/Missing Amino Acid Numbering	
7.33	vv	- LUVALIU/MISSIUU AULIU ACIO NIIROPIINO	

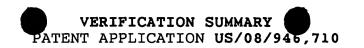
Input Set: **H946710.RAW**

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Line ? Error/Warning Original Text ______ 234 E Wrong Amino Acid Designator 235 W Invalid/Missing Amino Acid Numbering 236 E Wrong Amino Acid Designator 237 W Invalid/Missing Amino Acid Numbering 238 E Wrong Amino Acid Designator 239 W Invalid/Missing Amino Acid Numbering 240 E Wrong Amino Acid Designator 241 W Invalid/Missing Amino Acid Numbering 242 E Wrong Amino Acid Designator 243 W Invalid/Missing Amino Acid Numbering 244 E Wrong Amino Acid Designator 245 W Invalid/Missing Amino Acid Numbering 246 E Wrong Amino Acid Designator 247 W Invalid/Missing Amino Acid Numbering 248 E Wrong Amino Acid Designator 249 W Invalid/Missing Amino Acid Numbering 250 E Wrong Amino Acid Designator 251 W Invalid/Missing Amino Acid Numbering 252 E Wrong Amino Acid Designator 253 W Invalid/Missing Amino Acid Numbering 254 E Wrong Amino Acid Designator 255 W Invalid/Missing Amino Acid Numbering 256 E Wrong Amino Acid Designator 256 E Wrong Amino Acid Designator 257 W Invalid/Missing Amino Acid Numbering 258 E Wrong Amino Acid Designator 259 W Invalid/Missing Amino Acid Numbering 260 E Wrong Amino Acid Designator 260 E Wrong Amino Acid Designator 261 W Invalid/Missing Amino Acid Numbering 262 E Wrong Amino Acid Designator 263 W Invalid/Missing Amino Acid Numbering 264 E Wrong Amino Acid Designator 264 E Wrong Amino Acid Designator 264 E Wrong Amino Acid Designator 265 W Invalid/Missing Amino Acid Numbering 266 E Wrong Amino Acid Designator 267 W Invalid/Missing Amino Acid Numbering 268 E Wrong Amino Acid Designator 269 W Invalid/Missing Amino Acid Numbering 270 E Wrong Nucleic Acid Designator u_m_m_a_r_y_I_n_f_o_r_m_a_t_i_o_n___8_*_H ummaryInformation__8_*_H 270 E Wrong Nucleic Acid Designator 271 W Invalid/Missing Amino Acid Numbering 272 E Wrong Amino Acid Designator 272 E Wrong Amino Acid Designator 273 W Invalid/Missing Amino Acid Numbering 274 E Wrong Amino Acid Designator 275 W Invalid/Missing Amino Acid Numbering 276 E Wrong Amino Acid Designator 277 W Invalid/Missing Amino Acid Numbering

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Line	?	Error/Warning	Original Text		
278	- E	Wrong Amino Acid Designator			
		Invalid/Missing Amino Acid Numbering			_
		Wrong Amino Acid Designator		F	_M
280	E	Wrong Amino Acid Designator		F	M
280	E	Wrong Amino Acid Designator		F	 M
280	E	Wrong Amino Acid Designator		F	_M
281	W	Invalid/Missing Amino Acid Numbering			
282	E	Wrong Amino Acid Designator			
283	W	Invalid/Missing Amino Acid Numbering			
284	E	Wrong Amino Acid Designator			